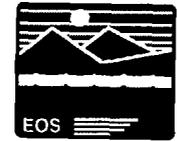


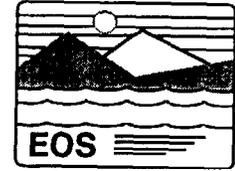
ESDIS



Flight Operations Segment

June 24, 1998

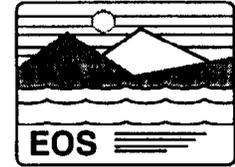
EOSDIS



FLIGHT OPERATIONS SYSTEM STATUS

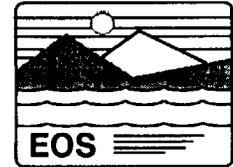
6/22/98

FOS STATUS



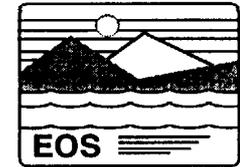
- **ECS developer continues to work off outstanding discrepancy reports**
 - **47 Severity 1 (impacts operations, no workaround) discrepancy reports still outstanding**
 - **Government is concerned that discrepancy report closure rate has remained at a steady state for the last few weeks**
- **ECS developer has brought in additional staff from Gaithersburg, Houston and Denver offices**
- **Some performance improvements have been achieved**
 - **Scheduling of ASTER activities has improved from 1500 seconds/activity in March to 9 seconds/activity in June**
 - >> Requirement is 18 seconds/activity
 - **Ingest and validation of 7 week Flight Dynamics System data has improved form 120 minutes in April to 9 minutes in June**
 - >> Requirement is 40 minutes

FOS STATUS



- **Significant problems still exist with system stability**
 - Latest FOS weekly software drop, FOS Version 2.2.0J, seems to have exacerbated problems
 - Problems seem to center around directive Controller window
- **-Expanded testing program with goal of surfacing software defects as soon as possible**
 - **Executing weekly Operations Readiness Testing (ORT) Mondays and Tuesdays on evening shift**
 - >>Run by flight operations team
 - >>Monday tests simulate AM-1 launch and early orbit
 - >>Tuesday tests simulate AM-1 normal operations
 - **Executing weekly 60 hour stability test**
 - >>Friday evening through Monday morning

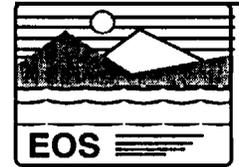
FOS STATUS



- **ECS developer is- revamping internal test plans and procedures to exercise FOS software in a more operational manner**
 - **Participation from FOS test team, flight operations team and spacecraft manufacturer**
- **ECS developer is currently working to internal schedule reflecting January 30, 1999 AM-1 launch date**
 - **Government assessment is that March 15, 1999 AM-1 launch date is more realistic**



AMOC STATUS

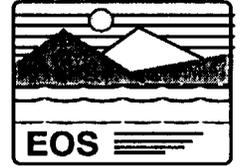


• **Epoch Prototype**

- **Ingested AM-1 project database successfully**
 - >> Still have 15-character mnemonic limitation, with fix planned for July
 - >> Temp workaround is to use a translation table
- **Implemented EDOS real-time telemetry interface**
 - >> Able to process housekeeping (16 kbps) and health & safety (1 kbps) data on I & Q channels using multiple workstations
- **Implemented EDOS real-time command interface**
 - >> Able to send commands to Multimode Potable Simulator (MPS), and MPS able to back-convert to the correct mnemonic
 - >> Able to receive CLCW packet from EDOS and perform command receipt verification
- **Created and using approximately 10 AM-1 displays**
- **Created and successfully executed 4 AM-1 command procedures**



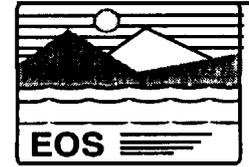
AMOC STATUS



- **Flowed AM-1 thermal vac spacecraft data from EDOS**
 - >> Recorded and processed data successfully
 - >> Using for Epoch and ABE (analysis tool) evaluation
- **Flight Dynamics System (FDS) making good progress on implementing data stream interface**
 - >> Near completion on interface
- **Mission Planning System**
 - **Identified goals for upcoming demo**
 - >> Simulated TDRS schedule ingest
 - >> Simulated activity creation and scheduling on timeline
 - **Working with FDS to define planning aid interface**
 - **Identified COTS hardware/software needs for development/test**
 - **Generated preliminary system architecture**



AMOC STATUS



- **Requirements Scrub**

- **Completed review of all FOS Level 4 requirements**

- >> Removed redundant and FOS-specific requirements
 - >> Reviewed launch criticality status
 - >> Created new requirements where necessary for clarity and/or completeness

- **Also included thorough review of Epoch, ABE, and MOPSS tool capabilities with implementation teams**

- **System Design/Architecture**

- **Generated draft hardware and software architecture**

- **Facility/Hardware**

- **Placed order for system hardware needed for development facility**
 - **Generated draft facility layout**